## **IN THE CLAIMS**

Please amend the claims as follows (a marked-up copy of the claim amendments is provided as an attachment to this Amendment):



6. (Amended - Clean Text) A fluid mixing device as claimed in claim 5 wherein said first fluid inlet is directed substantially toward said centrally disposed aperture.



11. (Amended - Clean Text) A fluid mixing device as claimed in claim 10 wherein said chamber includes an outer wall extending substantially around the perimeter of said region surrounding the bluff body.

- 13. (Amended Clean Text) A fluid mixing device as claimed in claim 12, wherein the geometric center of a cross-section of each of the flow channels defined by said corrugated profile is substantially equidistant from the bluff body and from the outer wall.
- 14. (Amended Clean Text) A fluid mixing device as claimed in claim 12, wherein the geometric centers of the cross-section of each of the flow channels defined by said corrugated profile are alternately substantially closer to the outer wall and substantially closer to the bluff body.
- 15. (Amended Clean Text) A fluid mixing device as claimed in claim 14 wherein the flow channels having cross-sections with geometric centers substantially closer to the outer wall form said second fluid inlets and the flow channels having cross-sections with geometric centers substantially closer to the bluff body form said mixed fluid outlets.



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- 16. (Twice Amended-Clean Text) A fluid mixing device as claimed in claim 10 wherein said corrugated profile is of triangular form so that said flow channels are generally triangular in cross section.
- 23. (Amended-Clean Text) A fluid mixing device as claimed in claim 22 wherein the spacing h of the first fluid inlet from said opposite end satisfies the relationship 0<h/L<l where L is the distance from the opposite end to the bluff body.

Please add the following claims for consideration by the Examiner:

- --- 33. A fluid mixing device including a chamber, a bluff body defining one end of the chamber, a first fluid inlet disposed toward an opposite end of the chamber from said bluff body and arranged to direct a first fluid toward said bluff body, a region substantially surrounding said bluff body including a flow divider defining at least one second fluid inlet configured to provide a second fluid to said chamber and at least one mixed fluid outlet configured to emit a mixture of said first fluid and said second fluid from said chamber while said at least one second fluid inlet provides a second fluid to said chamber, said first and second inlets and said mixed fluid outlet being configured and positioned so that a fluid flow from said first fluid inlet and said at least one second fluid inlet establishes a recirculating vortex system within said chamber that mixes said first fluid and said second fluid.
  - 34. A fluid mixing device including a chamber, a bluff body defining one end of the



## P21154.A04

chamber, a first fluid inlet disposed toward an opposite end of the chamber from said bluff body that directs a first fluid toward said bluff body, a region substantially surrounding said bluff body including a flow divider defining at least one second fluid inlet to said chamber that provides a second fluid and at least one mixed fluid outlet from said chamber that emits a mixed fluid, a fluid flow from said first fluid inlet and said at least one second fluid inlet establishing a recirculating vortex system within said chamber and a mixture of fluids from said first fluid inlet and said at least one second fluid inlet being emitted through said mixed fluid outlet.

8

- 35. The fluid mixing device of claim 1, wherein a direction of fluid entry to said chamber from said first fluid inlet is substantially opposite a direction of fluid entry to said chamber from said at least one second fluid inlet.
- 36. The fluid mixing device of claim 33, wherein a direction of fluid entry to said chamber from said first fluid inlet is substantially opposite a direction of fluid entry to said chamber from said at least one second fluid inlet.
- 37. The fluid mixing device of claim 34, wherein a direction of fluid entry to said chamber from said first fluid inlet is substantially opposite a direction of fluid entry to said chamber from said at least one second fluid inlet.---